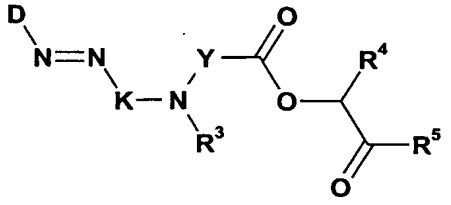
CLAIMS

1. Disperse dyes of the general formula (I)

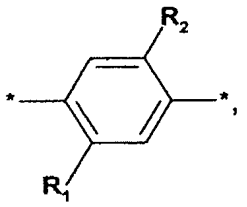


(I)

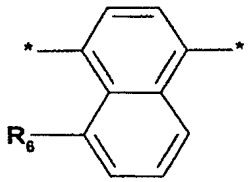
where

D is a diazo component derived from a substituted or unsubstituted aromatic amine,

K is an aromatic radical of the formula K_1, K_2 or K_3

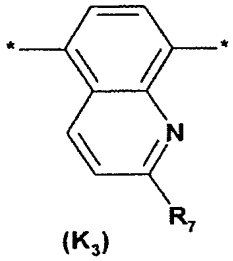


(K_1)



(K_2)

or



(K_3)

R_1 is hydrogen, chlorine, C_{1-2}-alkyl, C_{1-2}-alkoxy, hydroxyl or acylamino,

R_2 is hydrogen, C_{1-4}-alkoxy, C_{1-2}-alkoxyethoxy, chlorine, bromine or combines with R_3 to form a group of the formula -*$CH(CH_3)CH_2C(CH_3)_2$- (* attached to the nucleus),

R_3 is hydrogen, C_{1-6}-alkyl, C_{3-4}-alkenyl, chloro- or bromo-C_{3-4}-alkenyl, C_{3-4}-alkynyl, phenyl-C_{1-3}-alkyl, C_{1-4}-alkoxycarbonyl-C_{1-3}-alkyl, C_{3-4}-alkenyloxycarbonyl-C_{1-3}-alkyl, C_{3-4}-alkynyloxycarbonyl-C_{1-3}-alkyl, phenoxy-C_{2-4}-alkyl, halogen-, cyano-, C_{1-4}-alkoxy-, C_{1-4}-alkylcarbonyloxy- or C_{1-4}-alkoxycarbonyloxy-substituted C_{2-4}-alkyl, or a group of the formula -CH_2-$CH(R_8)CH_2$-R_9,

R_4 is hydrogen or C_{1-2}-alkyl,

R_5 is phenyl which may be substituted by one or two substituents selected from the group consisting of methyl, chlorine, bromine and nitro or combines with R_4 to form a c-pentanone or c-hexanone ring,

R_6 is hydrogen or hydroxyl,

R_7 is hydrogen or methyl,

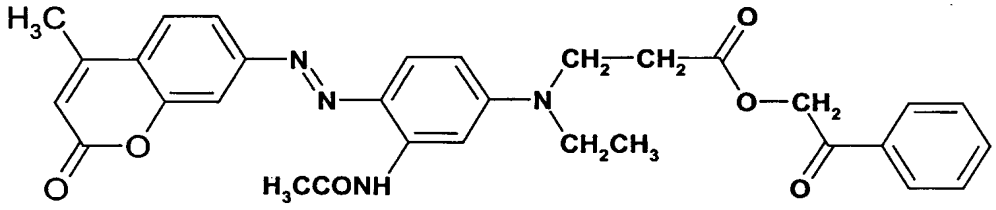
R_8 is hydroxyl or C_{1-4}-alkylcarbonyloxy,

R_9 is chlorine, C_{1-4}-alkoxy, phenoxy, allyloxy or C_{1-4}-alkylcarbonyloxy,

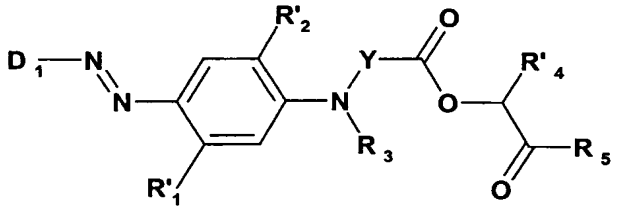
Y is C_{1-3}-alkylene,

wherein R_3 is just hydrogen when K is a radical of the formula K_2 or K_3,

the following formula being excluded



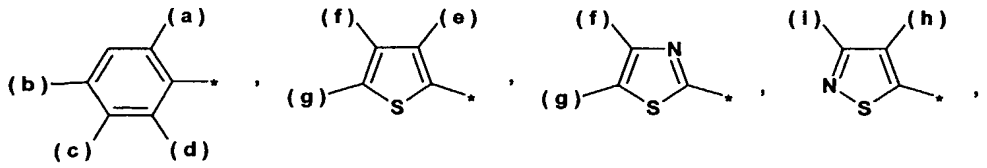
2. Disperse dyes according to Claim 1, characterized in that the dyes of the formula (I) have the formula (Ia)

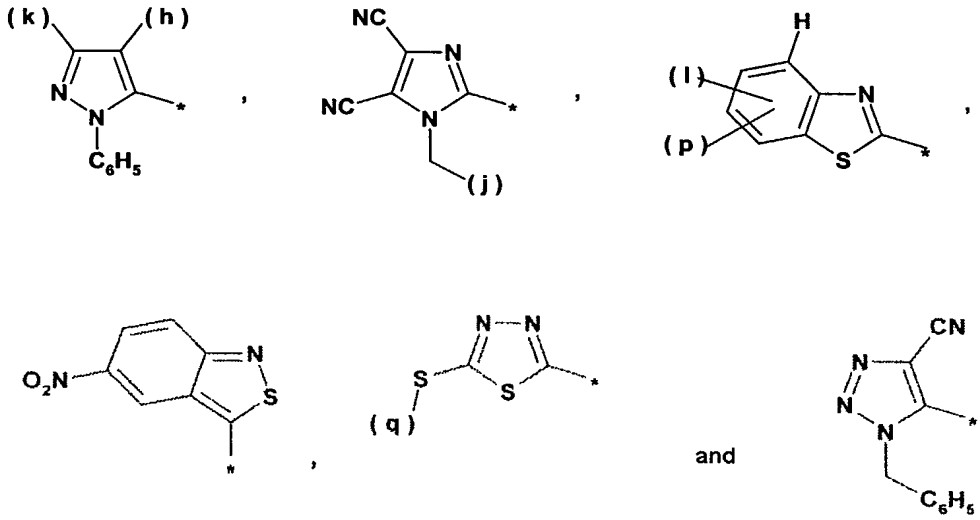


(Ia)

where

D_1 is 3-phenyl-1,2,4-thiadiazolyl or conforms to one of the following formulae:





where

(a) is hydrogen, chlorine, bromine, cyano, nitro-, C_{1-4}-alkoxycarbonyl, C_{1-3}-alkylsulphonyl, preferably hydrogen, chlorine, cyano or nitro,

(b) is chlorine, bromine, nitro, methyl, C_{1-2}-alkylsulphonyl, C_{1-4}-alkylcarbonyl, aminosulphonyl, mono- or di-C_{1-4}-alkylaminosulphonyl, phenylaminosulphonyl, C_{1-4}-alkoxycarbonyl, benzyloxycarbonyl, tetrahydrofurfuryl-2-oxycarbonyl, C_{3-4}-alkenyloxycarbonyl, C_{3-4}-alkynyloxycarbonyl, aminocarbonyl, mono- or di-C_{1-4}-alkylaminocarbonyl, phenylaminocarbonyl or phenylazo,

(c) is hydrogen or chlorine or else (when d is hydrogen) hydroxyl or rhodan,

(d) is hydrogen, chlorine, bromine, hydroxyl or cyano,

(e) is nitro, C_{1-4}-alkylcarbonyl, C_{1-4}-alkoxycarbonyl, cyano, aminocarbonyl, mono- or di-C_{1-4}-alkylaminocarbonyl,

(f) is hydrogen, chlorine, bromine, C_{1-2}-alkyl or phenyl,

(g) is nitro, cyano, formyl, dicyanovinyl or a group of the formula -CH=CH-NO_2, -CH=C(CN)CO-OC_{1-4}-alkyl, H_5C_6-N=N- or 3- or 4-NO_2-C_6H_4-N=N-,

(h) is cyano or C_{1-4}-alkoxycarbonyl,

(i) is C_{1-4}-alkyl or phenyl,

(j) is -CN, -CH=CH2 or phenyl,

(k) is C_{1-4}-alkyl,

(l) is hydrogen, chlorine, bromine, cyano, rhodan, nitro, C_{1-4}-alkoxycarbonyl or di-C_{1-4}-alkylaminosulphonyl,

(p) is hydrogen, chlorine or bromine, and

(q) is C_{1-4}-alkyl or C_{1-4}-alkoxycarbonyl-C_{1-4}-alkyl,

wherein the phenyl nuclei of these substituents may bear one or two substituents selected from the group consisting of chlorine, bromine, methyl and C_{1-2}-alkoxy,

R'_1 is hydrogen, methyl, chlorine or acylamino,

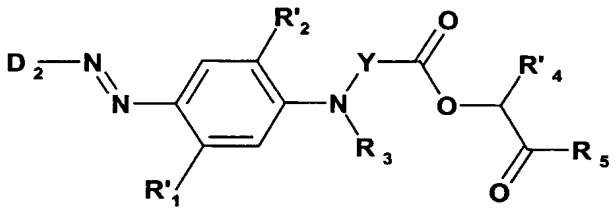
R'_2 is hydrogen, chlorine, C_{1-2}-alkoxy, C_{1-2}-alkoxyethoxy or combines with R_3 to form a group of the formula $-CH(CH_3)CH_2C(CH_3)_2-$,

R_3 and R_5 are each as defined above,

R'_4 is hydrogen or methyl, and

Y is a group of the formula $-CH_2CH_2-$ or $-CH_2CH(CH_3)-$.

3. Disperse dyes according to Claim 1, characterized in that the dyes of the formula (I) have the formula (Ib)

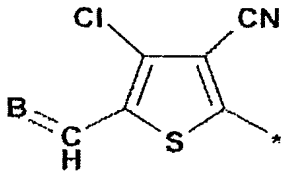


(Ib)

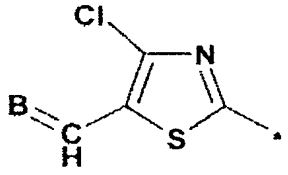
where

D_2 is the residue of a diazo component of the formula 2,6-dicyano-4-chloro-, 2,6-dicyano-4-bromo-, 2,6-dicyano-4-methyl-, 2,6-dicyano-4-nitrophenyl, 2,4-dinitro-6-chloro-, 2,4-dinitro-6-bromo- or 2,4-dinitro-6-cyanophenyl, 2-chloro-4-nitro-6-cyanophenyl, 2-bromo-4-nitro-6-cyanophenyl, 2,4-dinitrophenyl, 2,6-dichloro-4-nitrophenyl, 2,6-dibromo-4-nitrophenyl, 2-chloro-4-nitro-6-bromophenyl, 2-chloro-4-nitrophenyl, 2-cyano-4-nitrophenyl, 2,4-dinitro-5,6-dichlorophenyl, 2,5-dichloro-4-nitrophenyl, 4-nitro-phenyl, 4-phenylazophenyl, 4-C_{1-4}-alkoxycarbonylphenyl, 2-C_{1-4}-alkoxy-carbonyl-4-nitrophenyl, 4-benzyloxycarbonylphenyl, 4-(tetrahydrofurfuryl-2'-oxycarbonyl)phenyl, 3,5-dicyano-4-chloro-thienyl-2, 3,5-dicyano-thienyl-2,3-cyano-5-nitro-thienyl-2, 3-acetyl-5-nitro-thienyl-2, 3,5-dinitro-thienyl-2, 3-(C_{1-4}-alkoxycarbonyl)-5-nitro-thienyl-2, 5-phenylazo-

3-cyano-thienyl-2, 5-phenylazo-3-cyano-4-methyl-thienyl-2, 5-nitro-thiazolyl-2, 5-nitrobenzoiso-thiazolyl-3, 3-methyl-4-cyano-isothiazolyl-5, 3-phenyl-1,2,4-thiadiazolyl-2, 5-(C_{1-2}-alkylmercapto)-1,3,4-thiadiazolyl-2, 3-(C_{1-2}-alkoxycarbonylethyl-mercapto)-1,2,4-thiadiazolyl-5, 1-cyanomethyl-4,5-dicyano-imidazolyl-2, 6-nitrobenzothiazolyl-2, 5-nitrobenzothiazolyl-2, 6-rhodanbenzothiazolyl-2, 6-chlorobenzothiazolyl-2, (5),6,(7)-dichlorobenzothiazolyl-2, or of the formula



or



and B is oxygen or a group of the formula $=(CN)_2$, $=CH-NO_2$, $=(CN)-COOC_{1-4}$alkyl or $=(CN)-COOC_{3-4}$alkenyl

and the symbols R'_1, R'_2, R_3, R'_4, R_5 and Y are each as defined above.

4. Process for preparing the dyes of the formula (I), characterized in that a diazotized amine of the formula (II)

$D-NH_2$ (II)

is coupled with a compound of the formula (III)

H-K (III)

wherein D and K are each as defined in Claim 1.

5. Use of dyes according to Claim 1 for dyeing and/or printing hydrophobic fibre materials especially polyester, acetate and/or triacetate fibre materials.

6. Use of dyes according to Claim 1 for printing hydrophobic fibre materials by means of the ink jet printing process or hot melt ink jet printing process.

7. Compositions comprising at least one dye according to Claim 1.

8. Fibre materials printed or dyed with at least one dye according to Claim 1.